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PPLICATION NO.	FILIN	G DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/814,939	03/3	1/2004	John Timothy Otto	B04.12-0076	7881
48110	7590	12/30/2005		EXAMINER	
		TMAN, CHAN	DINH, TIEN QUANG		
SUITE 1400- INTERNATIONAL CENTRE 900 SECOND AVENUE SOUTH MINNEAPOLIS, MN 55402-3319				ART UNIT	PAPER NUMBER
				3644	

DATE MAILED: 12/30/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

S. Patent and Trademark Office PTOL-326 (Rev. 7-05)	Office Ac	etion Summary Pa	art of Paper No./Mail Date 20051208					
3) Information Disclosure S Paper No(s)/Mail Date 8	Patent Drawing Review (PTO-948) Statement(s) (PTO-1449 or PTO/SB/08)	4) Interview Summary Paper No(s)/Mail Do 5) Notice of Informal P 6) Other:						
12) Acknowledgme a) All b) So 1. Certified 2. Certified 3. Copies of applicati * See the attached	nt is made of a claim for foreign me * c) None of: copies of the priority documents copies of the priority documents of the certified copies of the prior on from the International Bureau	s have been received in Applicati fity documents have been receive	on No ed in this National Stage					
Priority under 35 U.S.C	. § 119							
9) The specification 10) The drawing(s) Applicant may not Replacement drawing	ot request that any objection to the awing sheet(s) including the correct	r. epted or b)  objected to by the Edrawing(s) be held in abeyance. Section is required if the drawing(s) is objected. Note the attached Office	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).					
Application Papers	•							
	12,17 and 20 is/are objected to. are subject to restriction and/o	r election requirement.						
,	i)							
•	4a) Of the above claim(s) is/are withdrawn from consideration.							
4)⊠ Claim(s) <u>1-21</u> i	)⊠ Claim(s) <u>1-21</u> is/are pending in the application.							
Disposition of Claims								
closed in accor	dance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.					
<u> </u>	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
2a) ☐ This action is F	Responsive to communication(s) filed on <u>18 October 2005</u> .  This action is <b>FINAL</b> . 2b)⊠ This action is non-final.							
Status  1) Passansiyo ta	communication(s) filed on 18 O	etabor 2005						
A SHORTENED STA WHICHEVER IS LON - Extensions of time may be after SIX (6) MONTHS fron - If NO period for reply is spe - Failure to reply within the se Any reply received by the O	NGER, FROM THE MAILING DA available under the provisions of 37 CFR 1.13 in the mailing date of this communication. scifled above, the maximum statutory period we et or extended period for reply will, by statute,	IS SET TO EXPIRE 3 MONTH( ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI date of this communication, even if timely filed	I.  lely filed  the mailing date of this communication.  D (35 U.S.C. § 133).					
The MAILING : Period for Reply	DATE of this communication app	ears on the cover sheet with the c	orrespondence address					
		Tien Dinh	3644					
Office Ac	tion Summary	Examiner	Art Unit					
		10/814,939	OTTO ET AL					
		Application No.	Applicant(s)					

### Election/Restrictions

Applicant's election of species A in the reply filed on 10/18/05 is acknowledged.

Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

Species J is now considered to be part of Species A.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 6 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Line 1, the "surface of the strut" lacks antecedent basis.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 2, 4, 6, 7, 9, 10, 11, 13-16, 18, 19, and 21 are rejected under 35 U.S.C. 102(b) as being anticipated by Otto.

Art Unit: 3644

Otto discloses an ice detector having a substantially cylindrical shaped probe 10 with an ice accreting edge, strut 14 with notch 24 formed in an upwind direction, and mounting flange 15. The notch causes the airflow to increase in turbulence prior to reaching the probe. Please note that the notch is formed by a v-shaped cavity (see figures 5, 6). The surface of the strut is curved that accelerates the airflow before it reaches the probe (see figure 2). Re claims 13-14, the probe is magnetostrictive probe which uses vibrations to detect ice.

## Allowable Subject Matter

Claims 3, 5, 8, 12, 17, and 20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

## Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Richard, Marxer et al, Lindsey et al, Fraser, and Werner disclose ice probes.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tien Dinh whose telephone number is 571-272-6899. The examiner can normally be reached on 9-6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Teri Luu can be reached on 571-272-7045. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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